INSTALLATION INSTRUCTIONS for HEALY SYSTEMS, INC. CLEAN AIR SEPARATOR

The Model 9942, Healy Systems Clean Air Separator Installation consists of a 400 gallon steel tank assembly (9961) that contains a fuel resistant bladder to contain excess gasoline vapors that may develop in gasoline storage tanks during idle periods of gasoline dispensing facility operation. The tank assembly weighs approximately 800 pounds which makes it necessary to have a power assisted lifting device available at the installation site to remove the tank from the transportation vehicle and place it on the required concrete pad (see drawing B9900-9945). The pad (level within 1/8"/foot) is located within 100 feet to the storage tank vent lines. The pad is a requirement of this installation. DO NOT PLACE THE TANK DIRECTLY ON THE GROUND OR ASPHALT SURFACE. NOTICE: The installer is responsible to ensure that the installation meets the latest edition requirements of NFPA 30A, Chapter 10. No electrical connections are required. The tank securement method shown in drawing B9900-9945 shall be approved by the local authority having jurisdiction with respect to wind and seismic loading.

In addition to the tank, there is a hardware kit that contains the following:

- 1 Pressure/Vacuum vent valve (See Exhibit 1 of VR-202-A for model number)
- 4 Locking 1" NPT Ball Valves
- 4 Pad locks (keyed alike)
- 1 Breather Assembly, Healy Model 9948
- 1 Vapor Inlet Assembly, Healy Model 9956
- 1 Float Check Valve Assembly, Model 9466G

Reference the appropriate Healy Systems installation drawing (C9900-9942, C9900-9971, C9900-9972 or C9900-9973 of this manual) for placement of the above parts for the vent stack configuration required by the local Authority Having Jurisdiction (AHJ) for the UST system. The local contractor is responsible to provide all necessary, galvanized piping, non-hardening, UL classified pipe joint compound and plumbing fittings. Additional Pressure/Vacuum (P/V) vent valves to complete installation are not included in the hardware kit. Healy is not responsible for the warranty of any other P/V vent valve purchased to complete installation.

The tank arrives at the site assembled and tested. All plumbing should be done using 1" galvanized steel pipe (Schedule 40) and approved nipples, as called out in the installation drawing appropriate for the site installation. Mounting hardware should be galvanized or stainless steel. Careful attention must be paid to the installation drawing appropriate for the site installation to assure proper operation of the bladder system. Do not inflate the bladder assembly after installation.

It is important that the tank be secured to the concrete pad as shown in drawing B9900-9945 of this manual to prevent any unintentional repositioning of the tank as the connecting plumbing to the vent system is accomplished.

Healy Systems, Inc.

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ARB Approved Installation, Operation and Maintenance Manual (August 31, 2005)

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OPERATION AND PURGING

NORMAL OPERATION:

□ There are four ball valves on the tank. In normal operation, only the valve at the top of the tank shall be open – the other three valves shall be closed. All four valves shall be locked in the above positions. The two plugs should be installed using a non-hardening, UL classified pipe joint compound and tightened to 60 ft-lbs.

DRAINING THE BLADDER:

- □ Any liquid coming over from the vent system would have collected above the valve in the riser pipe before going into the bladder. An inspection of the need to drain the bladder is easily made by removing the plug at the tee on the bottom plumbing of the tank. Before removing this plug, open the valve above the tee to release any liquid into the piping below. Wait approximately 30 seconds and then close the valve. Now, remove the plug at the tee on the bottom plumbing of the tank be sure to have a container suitable for gasoline available to catch fluid. If liquid in excess of 16 ounces (473 ml) drains out, the bladder should also be drained.
- □ Should it be necessary to drain the bladder:
 - 1. Close the upper ball valve (usually open) leading to the tank vent lines.
 - Open the valve that goes to the vertical riser that enters the top of the tank (the one without the ball valve going into the tank). Be sure the other three ball valves that connect to the vent lines and tank are closed.
 - 3. Remove the plug from the bottom tee and connect an explosion proof evacuation pump capable of handling liquid. Have a liquid tight, container suitable for gasoline positioned to receive any fluid that may exit the system and start the pump. If no liquid returns within 30 seconds, the bladder is dry discontinue pumping, remove the pump, replace the plug and return the ball valves to their original, locked, positions.

DRAINING THE TANK:

- □ Should it be necessary to drain the tank (between the bladder and steel wall):
 - 1. Close the ball valve at the top of the tank and also the two valves on the vertical risers.
 - 2. Remove the plug in the bottom tee and place a metal container below the pipe opening.
 - 3. Carefully open the ball valve at the bottom of the tank observe that the container that is being drained into does not overflow empty container as required until fluid no longer comes from the pipe when the valve is open.
 - 4. Close the ball valve and replace the plug into the tee.
 - 5. Return all ball valves to their original locked positions.

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